### Michigan Department of Licensing and Regulatory Affairs



# GUIDELINES FOR ANALYTICAL X-RAY EQUIPMENT OPERATING PROCEDURES AND OPERATOR TRAINING



## **Radiation Safety Section**

#### Rules 486 and 508 - Operating Procedures

The operating procedures should include information such as:

- A. Qualified operators
- B. Procedures for becoming qualified and authorized operators
- C. Wearing of personnel radiation monitoring devices
- D. Procedures regarding maintenance, service and electrical lock out
- E. Proper notification of the Radiation Protection Supervisor before maintenance and service procedures begin
- F. Emergency procedures

# Rules 485, 507 and 215 - Operator Training

A training program may involve the following. Some of the items may not apply in certain cases:

- I. Fundamentals of Radiation Safety
  - A. Characteristics of x radiation
  - B. Units of radiation dose
  - C. Biological effects
  - D. Hazards of excessive radiation exposure
  - E. Normal levels of radiation from the equipment and potential levels during accident conditions

### II. Radiation Detection

- A. Use of personnel monitoring devices
- B. Use of radiation monitoring instruments
- III. Specific Written Procedures for the Operation and Control of the X-Ray Equipment, Including Maintenance and Emergency Procedures
- IV. Pertinent Federal and State Regulations and Recommendations

We recommend that documentation which indicates that each operator has received the appropriate training be maintained in the company records.

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